

Global Immune Check Point Inhibitors Market & Clinical Pipeline Insight 2022

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Abstracts

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"Global Immune Check Point Inhibitors Market & Clinical Pipeline Insight 2022" report gives comprehensive insight on clinical and non-clinical aspects involved in the development and integration of immune check point inhibitors as main streamline drugs in the immunotherapy treatment. Report helps to identify the basic classification and molecular mechanism of action of immune check point inhibitors drugs available in the market and in the clinical pipeline. Currently there are 4 Immune Check Point Inhibitors drugs commercially available in the market and more than 70 drugs in clinical pipeline.

Immunotherapy represents a paradigm shift in cancer therapy along the multiple fronts. Although, targeted therapy upgrades the underlying signaling defect which results in oncogenesis within the tumor. The immune checkpoint blockade is fundamentally a therapy which directed at the patient's native immune system to tilt the immune homeostasis away from self-tolerance towards cytotoxicity, with the goal of inducing antitumor immunity.

Immune checkpoint inhibitors are the type of drugs which blocks the certain proteins made by some types of immune system cells, such as T cells and some cancer cells. These proteins help to keep the immune responses in check and keep the T cells from killing the cancer cells. When the proteins are blocked, the brakes on the immune system are released and T cells are able to kill the cancer cell better. The checkpoint proteins which found on T cells or cancer cells include the PD-1/PD-L1 and CTLA-4/B7-1/B7-2. Some immune checkpoint inhibitors are used to treat the cancer. Checkpoint proteins, such as PD-L1 on tumor cells and PD-1 on T cells, help to keep the immune responses in check. The binding of PD-L1 to PD-1 keeps T cells from killing



tumor cells in the body. Blocking the binding of PD-L1 to PD-1 with an immune checkpoint inhibitor (anti-PD-L1 or anti-PD-1) allows the T cells to kill tumor cells.

The immune checkpoint inhibitors such as ipilimumab, nivolumab and pembrolizumab were approved by FDA and are indicated for the treatment of squamous non-small cell lung cancer and metastatic melanoma, respectively. Several other anti PD-1 drugs are in late stage clinical trials and are expected to achieve the regulatory approval in the near future. Moreover, the anti PD-L1, antibody which targets the tumor cells rather than the T cells is also being studied and tested.

Immune checkpoint inhibitors appears to offer an advantage compared with standard cytotoxic chemotherapy and produces high response rates, durable response and the survival curves which indicate the sustained remission of long therapy which has been completed. Safety with the new therapies is of concern since the immune system is being suppressed by the cancer and the immune checkpoint inhibitors are turning the suppressed immune system. There are several factors of immune checkpoint inhibitors which help in the growth of market and in future help to continue the impact of immune checkpoint inhibitors in the market.

"Global Immune Check Point Inhibitors Market & Clinical Pipeline Insight 2022" report highlights:

Introduction & Mechanism of Action of Immune Checkpoint Inhibitors

CTLA 4, PD-1 & PD-L1 Inhibition Approved Drugs to Target Immune Checkpoints

Biomarkers Associated with Immune Checkpoint Inhibitors

Combination Approaches with Immune Checkpoint Inhibitors

Global Immune Checkpoint Inhibitors Clinical Pipeline

Future Potential of Immune Checkpoint Inhibitors



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